J. Electroanal. Chem., 352 (1993) 355
Elsevier Sequoia S.A., Lausanne

Author index

Aldaz, A. 345
Alderucci, V. 337
Angulo, M. 253

Bald, A. 29
Barbero, C. 301
Barman, S.R. 337
Bianco, P. 329
Bizot, J. 181
Britz, D. 17
Bruschi, M. 329
Buck, R.P. 309

Cauquis, G. 181
Chardon-Noblat, S. 213
Cosnier, S. 181, 213
Cosofret, V.V. 309

D'Angeli, F. 43
De Levie, R. 279, 321
Deprez, D. 181
Deronzier, A. 181, 213
Diard, J.-P. 1

Feliu, J.M. 345

Galland, B. 181
Galvín, R.M. 253
García-Hernández, M.T. 83
Giatti, A. 107
Giordano, N. 337
González-Fernández, C.F. 83
Goossens, A. 65

Haladjian, J. 329
Hamnett, A. 337
Heinze, J. 119
Horno, J. 83

Ikeda, T. 267

Jeney, J. 309

Kaisheva, M. 321
Kihara, S. 131
Kokkinidis, G. 153
Koopal, L.K. 107
Koper, M.T.M. 51
Kötz, R. 301

Le Gorrec, B. 1
Limosin, D. 181
Lindner, E. 309

Macdonald, D.D. 65
Mahlendorf, F. 119
Maran, F. 43
Matsui, M. 131
Miki, K. 267
Miyaoka, S. 267
Montella, C. 1
Montero-Ocampo, C. 1
Moutet, J.-C. 181
Mu, L. 295
Musiani, M.M. 197

Nakagawa, M. 243
Nishimura, K. 243
Nomura, K. 99
Nunzi, F. 329

O'Brien, R.N. 167
Ogura, K. 131
Orts, J.M. 345

Pagura, C. 197
Papadopoulos, N. 153
Papanastasiou, G. 153
Pérez, J.M. 345
Peters, D.G. 229
Pino, L. 337
Pulicani, J.-P. 181

Rodes, A. 345
Rodríguez Mellado, J.M. 253
Rosatzin, T. 309
Roy, A. 337

Santhanam, K.S.V. 167
Sarma, D.D. 337
Schmidt, V.M. 301
Severin, M.G. 43
Shukla, A.K. 337
Simon, W. 309
Sluyters, J.H. 51
Suzuki, M. 131

Takasu, Y. 243
Tateishi, N. 243

Urove, G.A. 229

Vianello, E. 43
Vlachopoulos, N. 213

Wandlowski, T. 279
Wieckowski, A. 313
Wu, X. 295

Yahikozawa, K. 243
Yamada, M. 243
Yamanokuchi, K. 99

Zhang, W. 295

J. Electroanal. Chem., 352 (1993) 357–361
Elsevier Sequoia S.A., Lausanne

Subject index

Acetonitrile
Electrochemical reduction of phthaloyl dichloride at carbon and mercury cathodes in acetonitrile (Urove, Peters) 229
Adsorption
Comments on the paper entitled In situ studies of adsorption of organic compounds on platinum electrodes, by J. O'M. Bockris and K.T. Jeng (Wieckowski) 313
Adsorption effects
Electrochemical oxidation of niazid and isoniazid at mercury electrodes. Influence of the adsorption of the reaction product on the polarographic and voltammetric curves (Rodríguez Mellado et al.) 253
Aprotic solvents
Impedance studies of organic systems in aprotic solvents (Mahlendorf, Heinze) 119
Aqueous electrolytes
The ion exchange in polypyrrole in aqueous electrolytes. A probe beam deflection study of the effect of fixed negative charges (Schmidt et al.) 301
Aqueous solution
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131
As–Sb
Kinetic model of the cathodic deposition of As–Sb alloys (Musiani, Pagura) 197

Blue-copper protein
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329

Carbon cathode
Electrodeposition of zinc on a carbon cathode followed by laser interferometry: evaluation of the growth of the cathodic boundary layer (O'Brien, Santhanam) 167
Carbon electrode
Electrochemical reduction of phthaloyl dichloride at carbon and mercury cathodes in acetonitrile (Urove, Peters) 229
Catalysis
Poly(pyrrole-manganese porphyrin): a catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen (Cauquis et al.) 181
Electrochemical properties of $[(C_5Me_5)Rh^{III}(L)Cl]^+$ complexes (L = 2,2′-bipyridine or 1,10-phenanthroline derivatives) in solution and in related polypyrrolic films. Application to electrocatalytic hydrogen generation (Chardon-Noblat et al.) 213
Electrocatalytic properties of ultrafine gold particles towards oxidation of acetaldehyde and ethanol (Tateishi et al.) 243
Catalytic mechanism
Electrochemical digital simulation: incorporation of the Crank–Nicolson scheme and *n*-point boundary expression into the Rudolph algorithm (Britz) 17
Cathodic deposition
Kinetic model of the cathodic deposition of As–Sb alloys (Musiani, Pagura) 197
Chemical decay
Self-protonation of electrogenerated carbanions. Competition between electrode reduction and chemical decay of the conjugate base of the substrate (Maran et al.) 43
Chromoionophores
The potentiometric pH response of chro-

moionophores used in optical sensors (Lindner et al.) 309
Chronoamperometric data
Determination of kinetic parameters from chronoamperometric data (Papanastasiou et al.) 153
Chronoamperometric reaction schemes
Digital simulation of electrochemical processes by the network approach (Horno et al.) 83
Concentrated salts
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131
Conductometric studies
Potentiometric and conductometric studies of NaI solutions in water + iso-propanol mixtures at 298.15 K (Bald) 29
Conjugate base
Self-protonation of electrogenerated carbanions. Competition between electrode reduction and chemical decay of the conjugate base of the substrate (Maran et al.) 43
Convection window
Electrodeposition of zinc on a carbon cathode followed by laser interferometry: evaluation of the growth of the cathodic boundary layer (O'Brien, Santhanam) 167
Crank–Nicolson
Electrochemical digital simulation: incorporation of the Crank–Nicolson scheme and *n*-point boundary expression into the Rudolph algorithm (Britz) 17

Design procedures
On the mathematical unification of a class of electrochemical oscillators and their design procedures (Koper, Sluyters) 51
D-gluconate
Enzyme-catalysed electrochemical oxidation of D-gluconate at electrodes coated with D-gluconate dehydrogenase, a membrane-bound flavohemoprotein (Ikeda et al.) 267
D-gluconate dehydrogenase
Enzyme-catalysed electrochemical oxidation of D-gluconate at electrodes coated with D-gluconate dehydrogenase, a membrane-bound flavohemoprotein (Ikeda et al.) 267
Diffusion layer growth
Electrodeposition of zinc on a carbon cathode followed by laser interferometry: evaluation of the growth of the cathodic boundary layer (O'Brien, Santhanam) 167
Digital simulation
Digital simulation of electrochemical processes by the network approach (Horno et al.) 83
Double layer dynamics
Double-layer dynamics in the adsorption of tetrabutyl ammonium ions at the mercury water interface. III. The admittance of the needle peak (Wandlowski, de Levie) 279
Drug metabolism
Poly(pyrrole-manganese porphyrin): a catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen (Cauquis et al.) 181

ECE mechanism
Digital simulation of electrochemical processes by the network approach (Horno et al.) 83
Electrocatalytic hydrogen generation
Electrochemical properties of $[(C_5Me_5)Rh^{III}(L)Cl]^+$ complexes (L = 2,2′-bipyridine or 1,10-phenanthroline derivatives) in solution and in related polypyrrolic films. Application to electrocatalytic hydrogen generation (Chardon-Noblat et al.) 213
Electrochemical digital simulation
Electrochemical digital simulation: incorporation of the Crank–Nicolson scheme and *n*-point boundary expression into the Rudolph algorithm (Britz) 17
Electrochemical impedance
Calculation, simulation and interpretation of electrochemical impedance diagrams. Part IV. Second-order electrochemical impedances (Diard et al.) 1
Electrochemical oscillators
On the mathematical unification of a class of electrochemical oscillators and their design procedures (Koper, Sluyters) 51
Electrochemical oxidation
Enzyme-catalysed electrochemical oxidation of D-gluconate at electrodes coated with D-gluconate dehydrogenase, a membrane-bound flavohemoprotein (Ikeda et al.) 267
Electrode reduction
Self-protonation of electrogenerated carbanions. Competition between electrode reduction and chemical decay of the conjugate base of the substrate (Maran et al.) 43

Electrogenerated carbanions
Self-protonation of electrogenerated carbanions. Competition between electrode reduction and chemical decay of the conjugate base of the substrate (Maran et al.) 43
Electrolyte solution dropping electrode
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131
Enzyme catalysis
Enzyme-catalysed electrochemical oxidation of D-gluconate at electrodes coated with D-gluconate dehydrogenase, a membrane-bound flavohemoprotein (Ikeda et al.) 267
Epinephrine
Impedance of the electrochemical oxidation of epinephrine on a glassy carbon electrode (Wu et al.) 295

Film growth model
Double-layer dynamics in the adsorption of tetrabutyl ammonium ions at the mercury water interface. III. The admittance of the needle peak (Wandlowski, de Levie) 279
Flavohemoprotein
Enzyme-catalysed electrochemical oxidation of D-gluconate at electrodes coated with D-gluconate dehydrogenase, a membrane-bound flavohemoprotein (Ikeda et al.) 267
FTIR study
FTIR study of the electrochemical behaviour of squaric acid on polycrystalline platinum electrodes in 0.5 M H_2SO_4 (Rodes et al.) 345

Glassy carbon electrode
Impedance of the electrochemical oxidation of epinephrine on a glassy carbon electrode (Wu et al.) 295
Gold particles
Electrocatalytic properties of ultrafine gold particles towards oxidation of acetaldehyde and ethanol (Tateishi et al.) 243

H^+-selective electrodes
The potentiometric pH response of chromoionophores used in optical sensors (Lindner et al.) 309

Impedance diagram shape
Calculation, simulation and interpretation of electrochemical impedance diagrams. Part IV. Second-order electrochemical impedances (Diard et al.) 1
Impedance diagram simulation
Calculation, simulation and interpretation of electrochemical impedance diagrams. Part IV. Second-order electrochemical impedances (Diard et al.) 1
Impedance studies
Impedance studies of organic systems in aprotic solvents (Mahlendorf, Heinze) 119
Impurity effects
The potentiometric pH response of chromoionophores used in optical sensors (Lindner et al.) 309
Ion exchange
The ion exchange in polypyrrole in aqueous electrolytes. A probe beam deflection study of the effect of fixed negative charges (Schmidt et al.) 301
Ion transfer
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131
Iridium oxide
Preparation and characterization of iridium and titanium oxide layers on silica particles (Giatti, Koopal) 107
Isoniazid
Electrochemical oxidation of niazid and isoniazid at mercury electrodes. Influence of the adsorption of the reaction product on the polarographic and voltammetric curves (Rodríguez Mellado et al.) 253

Kinetic parameters
Determination of kinetic parameters from chronoamperometric data (Papanastasiou et al.) 153
Kinetics
Kinetic observations of the capacitance of near-saturated 1-octanol solutions (Kaisheva, de Levie) 321

Membrane potential
Dependence of membrane potential on pH in perfluorocarboxylate membrane–aqueous alkali metal chloride systems (Nomura, Yamanokuchi) 99
Mercury cathodes
Electrochemical reduction of phthaloyl

dichloride at carbon and mercury cathodes in acetonitrile (Urove, Peters) 229
Mercury/water interface
Double-layer dynamics in the adsorption of tetrabutyl ammonium ions at the mercury water interface. III. The admittance of the needle peak (Wandlowski, de Levie) 279
Microbial leading
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329

Needle peak
Double-layer dynamics in the adsorption of tetrabutyl ammonium ions at the mercury water interface. III. The admittance of the needle peak (Wandlowski, de Levie) 279
Network approach
Digital simulation of electrochemical processes by the network approach (Horno et al.) 83
Niazid
Electrochemical oxidation of niazid and isoniazid at mercury electrodes. Influence of the adsorption of the reaction product on the polarographic and voltammetric curves (Rodríguez Mellado et al.) 253

Octanol
Kinetic observations of the capacitance of near-saturated 1-octanol solutions (Kaisheva, de Levie) 321
Olefin epoxidation
Poly(pyrrole-manganese porphyrin): a catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen (Cauquis et al.) 181
Organic compounds
Comments on the paper entitled In situ studies of adsorption of organic compounds on platinum electrodes, by J. O'M. Bockris and K.T. Jeng (Wieckowski) 313
Organic solution
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131
Oxidation
Electrocatalytic properties of ultrafine gold particles towards oxidation of acetaldehyde and ethanol (Tateishi et al.) 243
Impedance of the electrochemical oxidation of epinephrine on a glassy carbon electrode (Wu et al.) 295
Oxidation mechanism
Electrochemical oxidation of niazid and isoniazid at mercury electrodes. Influence of the adsorption of the reaction product on the polarographic and voltammetric curves (Rodríguez Mellado et al.) 253
Oxidative electropolymerization
Poly(pyrrole-manganese porphyrin): a catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen (Cauquis et al.) 181

Perfluorocarboxylate membrane
Dependence of membrane potential on pH in perfluorocarboxylate membrane–aqueous alkali metal chloride systems (Nomura, Yamanokuchi) 99
Photoelectrochemical impedance spectroscopy
A photoelectrochemical impedance spectroscopic study of passive tungsten (Goossens, Macdonald) 65
Photoelectron spectroscopic study
An X-ray photoelectron spectroscopic study on platinised carbons with varying functional-group characteristics (Shukla et al.) 337
pH response
The potentiometric pH response of chromoionophores used in optical sensors (Lindner et al.) 309
Phthaloyl dichloride
Electrochemical reduction of phthaloyl dichloride at carbon and mercury cathodes in acetonitrile (Urove, Peters) 229
Platinised carbons
An X-ray photoelectron spectroscopic study on platinised carbons with varying functional-group characteristics (Shukla et al.) 337
Platinum electrodes
Comments on the paper entitled In situ studies of adsorption of organic compounds on platinum electrodes, by J. O'M. Bockris and K.T. Jeng (Wieckowski) 313
Polarography
Ion transfer at the interface between an aqueous solution in the presence of concentrated salts and an organic solution studied by polarography at the electrolyte solution dropping electrode (Ogura et al.) 131

Polypyrrole
Electrochemical properties of $[(C_5Me_5)Rh^{III}(L)Cl]^+$ complexes (L = 2,2′-bipyridine or 1,10-phenanthroline derivatives) in solution and in related polypyrrolic films. Application to electrocatalytic hydrogen generation (Chardon-Noblat et al.) 213
Polypyrrole films
The ion exchange in polypyrrole in aqueous electrolytes. A probe beam deflection study of the effect of fixed negative charges (Schmidt et al.) 301
Poly(pyrrole-manganese porphyrin
Poly(pyrrole-manganese porphyrin): a catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen (Cauquis et al.) 181
Potentiometric studies
Potentiometric and conductometric studies of NaI solutions in water + iso-propanol mixtures at 298.15 K (Bald) 29
Probe beam deflection
The ion exchange in polypyrrole in aqueous electrolytes. A probe beam deflection study of the effect of fixed negative charges (Schmidt et al.) 301

Redox processes
The ion exchange in polypyrrole in aqueous electrolytes. A probe beam deflection study of the effect of fixed negative charges (Schmidt et al.) 301
Redox proteins
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329
Reversible electron transfer
Digital simulation of electrochemical processes by the network approach (Horno et al.) 83
Rhodium complexes
Electrochemical properties of $[(C_5Me_5)Rh^{III}(L)Cl]^+$ complexes (L = 2,2′-bipyridine or 1,10-phenanthroline derivatives) in solution and in related polypyrrolic films. Application to electrocatalytic hydrogen generation (Chardon-Noblat et al.) 213
Rudolph algorithm
Electrochemical digital simulation: incorporation of the Crank–Nicolson scheme and *n*-point boundary expression into the Rudolph algorithm (Britz) 17
Rusticyanin
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329

Self-protonation
Self-protonation of electrogenerated carbanions. Competition between electrode reduction and chemical decay of the conjugate base of the substrate (Maran et al.) 43
Silica
Preparation and characterization of iridium and titanium oxide layers on silica particles (Giatti, Koopal) 107
Sodium iodide
Potentiometric and conductometric studies of NaI solutions in water + iso-propanol mixtures at 298.15 K (Bald) 29
Squaric acid
FTIR study of the electrochemical behaviour of squaric acid on polycrystalline platinum electrodes in 0.5 M H_2SO_4 (Rodes et al.) 345
Surface-modified electrodes
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329

Tetrabutyl ammonium
Double-layer dynamics in the adsorption of tetrabutyl ammonium ions at the mercury water interface. III. The admittance of the needle peak (Wandlowski, de Levie) 279
Thiobacillus ferrooxidans
Electron-transfer reaction of rusticyanin, a "blue"-copper protein from *Thiobacillus ferrooxidans*, at modified gold electrodes (Haladjian et al.) 329
Titanium oxide
Preparation and characterization of iridium and titanium oxide layers on silica particles (Giatti, Koopal) 107
Tungsten
A photoelectrochemical impedance spectroscopic study of passive tungsten (Goossens, Macdonald) 65

Zinc deposition
Electrodeposition of zinc on a carbon cathode followed by laser interferometry: evaluation of the growth of the cathodic boundary layer (O'Brien, Santhanam) 167